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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO | |
|---|-------------|--------------------------|-------------------------|-----------------|--|
| 10/637,841 | 08/08/2003 | William Delaplaine Green | 3345 | | |
| 7590 09/15/2005 | | | EXAMINER | | |
| William Delaplaine Green | | | ALI, HYDER | | |
| 8906 Camden Street P. Alexandria, VA 22308 | | | ART UNIT | PAPER NUMBER | |
| | | | 3747 | | |
| | | | DATE MAILED: 09/15/2005 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|---|--|---|---|---|-----------------|--|--|--|
| | | Application | on No. | Applicant(s) | 1 | | | |
| Office Action Summary | | 10/637,84 | 1.1 | GREEN, WILLIAM | DELAPLAINE | | | |
| | | Examiner | • | Art Unit | | | | |
| | | HYDER A | | 3747 | | | | |
| Period for | The MAILING DATE of this commun Reply | ication appears on the | cover sheet with the c | orrespondence ad | Idress | | | |
| WHICH - Extension after SD - If NO pe - Failure | RTENED STATUTORY PERIOD F IEVER IS LONGER, FROM THE M ons of time may be available under the provisions X (6) MONTHS from the mailing date of this com- reirod for reply is specified above, the maximum st to reply within the set or extended period for reply ly received by the Office later than three months patent term adjustment. See 37 CFR 1.704(b). | MAILING DATE OF TH s of 37 CFR 1.136(a). In no even nunication. tatutory period will apply and wi y will, by statute, cause the app | HIS COMMUNICATION ent, however, may a reply be tim ill expire SIX (6) MONTHS from lication to become ABANDONEI | N. nely filed the mailing date of this co D (35 U.S.C. § 133). | | | | |
| Status | | | | | | | | |
| 1)⊠ R | esponsive to communication(s) file | ed on 11 July 2005. | | | | | | |
| · | | 2b)⊠ This action is n | on-final. | • | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Dispositio | n of Claims | | | | | | | |
| 4a 5)⊠ C 6)⊠ C 7)⊠ C | Claim(s) <u>1-65</u> is/are pending in the and Of the above claim(s) is/action is/action(s) <u>1-41,64 and 65</u> is/are allow claim(s) <u>42-56,58 and 60-63</u> is/are claim(s) <u>57 and 59</u> is/are objected to restrict in the action is a subject to restrict in t | re withdrawn from coved. rejected. | | | | | | |
| Application | n Papers | | | | | | | |
| 9)□ Tr | ne specification is objected to by th | e Examiner. | | | | | | |
| 10)⊠ Th | ne drawing(s) filed on <u>08 August 20</u> | <u>)03</u> is/are: a)⊠ acce | pted or b)□ objected t | to by the Examine | er. | | | |
| | pplicant may not request that any obje | | • | ` ' | · | | | |
| | eplacement drawing sheet(s) including ne oath or declaration is objected to | • | • • • • | • | ` ' | | | |
| Priority un | der 35 U.S.C. § 119 | | | | | | | |
| a) 1 2 3 | cknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation the attached detailed Office action | documents have bee documents have bee of the priority docume onal Bureau (PCT Rul | n received. In received in Application In received in Application In received in received in 17.2(a)). | on No ed in this National | Stage | | | |
| Attachment(s | • | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| 2) ☐ Notice o 3) ☑ Informa | of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (F tion Disclosure Statement(s) (PTO-1449 or Io(s)/Mail Date <u>3/19/05</u> . | | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate | O-1 <u>5</u> 2) | | | |

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 42-56,58,60-63 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-21 of U.S. Patent No. 6546901. Although the conflicting claims are not identical, they are not patentably distinct from each other because U.S. Patent No. 6546901 discloses an internal combustion engine comprising compressor means and reciprocating means no different from the matters described in claims 42-56,58,60-63 of present application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 42-56,58,60-63 are rejected under 35 U.S.C. 102(b) as being anticipated by Rowells (US 5,634,447).

As to Claim 42, Rowells discloses a internal combustion engine 10 having housing means, compressor means 34, reciprocating means 28, and fuel supply means 25, to cause combustion of said fuel between said compressor means 34 and said reciprocating means 28 wherein said compressor means 34 and said reciprocating means 28 receive a power transfer from said combustion.

As to Claim 43, Rowells discloses fuel injection means 25.

As to Claim 44, Rowells discloses ignition means by compression.

As to Claim 45, Rowells discloses cooling means (not numbered).

As to Claim 46, Rowells discloses lubrication means (inherent).

As to Claim 47, Rowells discloses cylinder means 26.

As to Claim 48, Rowells discloses piston means 28.

As to Claim 49, Rowells discloses camshaft means (inherent).

As to Claim 50, Rowells discloses valve means 30.

As to Claim 51, Rowells discloses throttle means (inherently located in the intake manifold 19).

As to Claim 52, Rowells discloses crankshaft means 21.

As to Claim 53, Rowells discloses a method for internal combustion engine, which comprises: compressing a fuel within a housing means between a compressor means 34 and a reciprocating means 28 to cause combustion wherein the energy of

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combustion is transferred to said reciprocating means 28 and said compressor means 34.

As to Claim 54, Rowells discloses said compressor means 34 is rotationally connected to said reciprocating means 28.

As to Claim 55, Rowells discloses fuel injection means 25 injects fuel into said housing means.

As to Claim 56, Rowells discloses a method for a internal combustion engine 10, which comprises: compressing a fuel within a housing means between a compressor means 34 and a reciprocating means 28 wherein the energy of combustion is transferred to said reciprocating means 28 and said compressor means 34.

As to Claim 58, Rowells discloses apparatus for a internal combustion engine 10, which comprises housing means; compressor means 34; reciprocating means 28; fuel supply means 25; means to compress fuel between said compressor means 34 and said reciprocating means 28 to initiate combustion, wherein the power of combustion is transferred to said reciprocating means 28 and said compressor means 34.

As to Claim 60, Rowells discloses cooling means (not numbered).

As to Claim 61, Rowells discloses lubrication means (inherent).

As to Claim 62, Rowells discloses valve means 30.

As to Claim 63, Rowells discloses bearing means (inherent to support crankshaft 21).

Allowable Subject Matter

Claims 1-41,64 and 65 are allowed.

Claims 57 and 59 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1-65 have been considered but are moot in view of the new ground(s) of rejection. Rowells discloses when the intake valve is closed the energy of combustion is transferred to reciprocating means 28 and when the exhaust valve 30 opens the energy of combustion is transferred to compressor means 34.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HYDER ALI whose telephone number is (571) 272-4836. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HENRY YUEN can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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